

COC # 49

11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132
20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

(425) 420-9200 FAX 420-9210
(509) 924-9200 FAX 924-9290
(503) 906-9200 FAX 906-9210
(541) 383-9310 FAX 382-7588

CHAIN OF CUSTODY REPORT

Work Order #: P1F0128

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|--|--|---------------------|--|--------------------------|--|--------------|--|--|--|--|--|---|--|-----------|--|-----------|--|
| CLIENT: Bristol Enviro Engineering | | INVOICE TO: Bristol | | | | | | | | | | TURNAROUND REQUEST in Business Days* | | | | | |
| REPORT TO: Anne Krausweller | | P.O. NUMBER: 21090 | | | | | | | | | | Organic & Inorganic Analyses <input type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. | | | | | |
| ADDRESS: 2000 W. International Airport Rd #C1 Anchorage AK 99502-1116 | | REQUESTED ANALYSES | | | | | | | | | | Petroleum Hydrocarbon Analyses <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 STD. | | | | | |
| PHONE: 907.770.0974 FAX: 770.0975 | | OTHER | | | | | | | | | | Please Specify | | | | | |
| PROJECT NAME: Amchitka | | MATRIX (W, S, O) | | | | | | | | | | # OF CONT. | | COMMENTS | | NCA WO ID | |
| PROJECT NUMBER: 21090 | | TOX PAH - SIM | | | | | | | | | | | | | | | |
| SAMPLED BY: Anne/Charlie | | | | | | | | | | | | | | | | | |
| CLIENT SAMPLE IDENTIFICATION | | SAMPLING DATE/TIME | | TOX | | PAH - SIM | | | | | | | | | | | |
| 1. 01 AMRX 155L | | 6/2/01 1125 | | ✓ | | ✓ | | | | | | | | | | | |
| 2. 01 AMRX 165L | | 6/2/01 1150 | | | | ✓ | | | | | | | | | | | |
| 3. 01 AMD 4075L | | | | | | | | | | | | | | | | | |
| 4. KB 11/07/01 Change per mike Vogel - email | | | | | | | | | | | | | | | | | |
| 5. | | | | | | | | | | | | | | | | | |
| 6. | | | | | | | | | | | | | | | | | |
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| 14. | | | | | | | | | | | | | | | | | |
| 15. | | | | | | | | | | | | | | | | | |
| RELINQUISHED BY: [Signature] | | DATE: 6/2/01 | | RECEIVED BY: [Signature] | | DATE: 6/2/01 | | | | | | | | | | | |
| PRINT NAME: Charlie Marshall | | FIRM: Bristol | | PRINT NAME: [Signature] | | FIRM: NCA | | | | | | | | | | | |
| RELINQUISHED BY: [Signature] | | DATE: 6/2/01 | | RECEIVED BY: [Signature] | | DATE: 6/2/01 | | | | | | | | | | | |
| PRINT NAME: [Signature] | | FIRM: [Signature] | | PRINT NAME: Kim Davis | | FIRM: NCA | | | | | | | | | | | |
| ADDITIONAL REMARKS: COC REV 3/99 NEED TO GO TO PDX - AN 6/2/01 | | | | | | | | | | | | | | TEMP: 8.2 | | PAGE OF | |



Seattle 11720 Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
425.425.425 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

7 November, 2001

Anne Krarawetter
Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are **amended** results of analyses for samples received by the laboratory on 06/06/01 12:40. If you have any questions concerning this report, please feel free to contact me. These results supercede all previous results reported by the laboratory.

Sincerely,

Jerry Orlando
Project Manager/QA

Work Orders included in this report:

P1F0128

Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 210901, PO# 21090
Project Manager: Anne Krarawetter


Amended Report
Issued: 11/07/01 10:22

ANALYTICAL REPORT FOR SAMPLES - Amended

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|------------|---------------|--------|----------------|----------------|
| 01AMRXT9SL | P1F0128-01 | Soil | 06/02/01 11:25 | 06/06/01 12:40 |
| 01AMD407SL | P1F0128-02 | Soil | 06/02/01 11:50 | 06/06/01 12:40 |

North Creek Analytical - Portland

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Jerry Orlando, Project Manager/QA

Bristol Environmental & Engineering
 2000 W. International Airport Rd. #C-1
 Anchorage, AK 99502-1116

Project: Amchitka
 Project Number: 210901, PO# 21090
 Project Manager: Anne Krarawetter

Amended Report
 Issued: 11/07/01 10:22


Polynuclear Aromatic Compounds per EPA 8270M-SIM
North Creek Analytical - Portland

| Analyte | Result | Reporting Limit | Units | Dilution | Method | Prepared | Analyzed | Batch | Notes |
|-------------------------------------|--------|-----------------|-----------|----------|-----------|--------------------------------------|----------|---------|-------|
| 01AMRXT9SL (P1F0128-01) Soil | | | | | | | | | |
| | | | | | | Sampled: 06/02/01 Received: 06/06/01 | | | |
| Acenaphthene | ND | 134 | ug/kg dry | 10 | EPA 8270m | 06/07/01 | 06/15/01 | 1060242 | R-03 |
| Acenaphthylene | ND | 134 | " | " | " | " | " | " | R-03 |
| Anthracene | ND | 134 | " | " | " | " | " | " | R-03 |
| Benzo (a) anthracene | ND | 134 | " | " | " | " | " | " | R-03 |
| Benzo (a) pyrene | ND | 13.4 | " | 1 | " | " | 06/15/01 | " | R-03 |
| Benzo (b) fluoranthene | ND | 13.4 | " | " | " | " | " | " | |
| Benzo (ghi) perylene | ND | 13.4 | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 13.4 | " | " | " | " | " | " | |
| Chrysene | ND | 134 | " | 10 | " | " | 06/15/01 | " | R-03 |
| Dibenzo (a,h) anthracene | ND | 13.4 | " | 1 | " | " | 06/15/01 | " | |
| Fluoranthene | ND | 134 | " | 10 | " | " | 06/15/01 | " | R-03 |
| Fluorene | ND | 134 | " | " | " | " | " | " | R-03 |
| Indeno (1,2,3-cd) pyrene | ND | 13.4 | " | 1 | " | " | 06/15/01 | " | |
| Naphthalene | ND | 13.4 | " | " | " | " | " | " | |
| Phenanthrene | ND | 134 | " | 10 | " | " | 06/15/01 | " | R-03 |
| Pyrene | ND | 134 | " | " | " | " | " | " | R-03 |
| Surr: Fluorene-d10 | 117 % | 40-150 | | | | | | | |
| Surr: Pyrene-d10 | 141 % | 40-150 | | | | | | | |
| Surr: Benzo (a) pyrene-d12 | 106 % | 40-150 | | | | | | | |

| | | | | | | | | | |
|-------------------------------------|--------|--------|-----------|---|-----------|--------------------------------------|----------|---------|--|
| 01AMD407SL (P1F0128-02) Soil | | | | | | | | | |
| | | | | | | Sampled: 06/02/01 Received: 06/06/01 | | | |
| Acenaphthene | ND | 13.4 | ug/kg dry | 1 | EPA 8270m | 06/07/01 | 06/15/01 | 1060242 | |
| Acenaphthylene | ND | 13.4 | " | " | " | " | " | " | |
| Anthracene | ND | 13.4 | " | " | " | " | " | " | |
| Benzo (a) anthracene | ND | 13.4 | " | " | " | " | " | " | |
| Benzo (a) pyrene | ND | 13.4 | " | " | " | " | " | " | |
| Benzo (b) fluoranthene | ND | 13.4 | " | " | " | " | " | " | |
| Benzo (ghi) perylene | ND | 13.4 | " | " | " | " | " | " | |
| Benzo (k) fluoranthene | ND | 13.4 | " | " | " | " | " | " | |
| Chrysene | ND | 13.4 | " | " | " | " | " | " | |
| Dibenzo (a,h) anthracene | ND | 13.4 | " | " | " | " | " | " | |
| Fluoranthene | ND | 13.4 | " | " | " | " | " | " | |
| Fluorene | ND | 13.4 | " | " | " | " | " | " | |
| Indeno (1,2,3-cd) pyrene | ND | 13.4 | " | " | " | " | " | " | |
| Naphthalene | ND | 13.4 | " | " | " | " | " | " | |
| Phenanthrene | 14.1 | 13.4 | " | " | " | " | " | " | |
| Pyrene | ND | 13.4 | " | " | " | " | " | " | |
| Surr: Fluorene-d10 | 85.0 % | 40-150 | | | | | | | |

North Creek Analytical - Portland

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 Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc.
 Environmental Laboratory Network

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Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 210901, PO# 21090
Project Manager: Anne Krarawetter

Amended Report
Issued: 11/07/01 10:22

Polynuclear Aromatic Compounds per EPA 8270M-SIM
North Creek Analytical - Portland

| Analyte | Result | Reporting Limit | Units | Dilution | Method | Prepared | Analyzed | Batch | Notes |
|---------|--------|--------------------|-------|----------|--------|----------|----------|-------|-------|
|---------|--------|--------------------|-------|----------|--------|----------|----------|-------|-------|

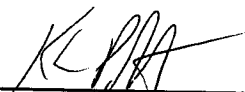
01AMD407SL (P1F0128-02) Soil

Sampled: 06/02/01 Received: 06/06/01

| | | |
|----------------------------|--------|--------|
| Surr: Pyrene-d10 | 103 % | 40-150 |
| Surr: Benzo (a) pyrene-d12 | 88.2 % | 40-150 |

North Creek Analytical - Portland

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Environmental Laboratory Network

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Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 210901, PO# 21090
Project Manager: Anne Krarawetter

Amended Report
Issued: 11/07/01 10:22

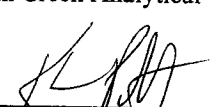
Percent Dry Weight (Solids) per Standard Methods

North Creek Analytical - Portland

| Analyte | Result | Reporting Limit | Units | Dilution | Method | Prepared | Analyzed | Batch | Notes |
|------------------------------|--------|--------------------|-------------|----------|---------|--------------------------------------|----------|---------|-------|
| 01AMRXT9SL (P1F0128-01) Soil | | | | | | Sampled: 06/02/01 Received: 06/06/01 | | | |
| % Solids | 77.0 | 1.00 | % by Weight | 1 | NCA SOP | 06/14/01 | 06/15/01 | 1060470 | |
| 01AMD407SL (P1F0128-02) Soil | | | | | | Sampled: 06/02/01 Received: 06/06/01 | | | |
| % Solids | 82.9 | 1.00 | % by Weight | 1 | NCA SOP | 06/14/01 | 06/15/01 | 1060470 | |

North Creek Analytical - Portland

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Environmental Laboratory Network

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Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 210901, PO# 21090
Project Manager: Anne Krarawetter


Amended Report
Issued: 11/07/01 10:22

Conventional Chemistry Parameters by APHA/EPA Methods
North Creek Analytical - Bothell

| Analyte | Result | Reporting Limit | Units | Dilution | Method | Prepared | Analyzed | Batch | Notes |
|-------------------------------------|--------|--------------------|-----------|----------|---------------|--------------------------------------|----------|---------|-------|
| 01AMRXT9SL (P1F0128-01) Soil | | | | | | Sampled: 06/02/01 Received: 06/06/01 | | | |
| Total Organic Carbon - Average | 6560 | 1000 | mg/kg dry | 1 | EPA 9060 mod. | 06/18/01 | 06/18/01 | 1F19024 | |
| Total Organic Carbon - High | 9400 | 1000 | " | " | " | " | " | " | |
| Total Organic Carbon - Low | 5280 | 1000 | " | " | " | " | " | " | |

North Creek Analytical - Portland

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Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

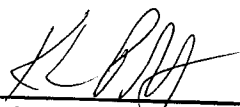
Project: Amchitka
Project Number: 210901, PO# 21090
Project Manager: Anne Krarawetter

Amended Report
Issued: 11/07/01 10:22

Physical Parameters by APHA/ASTM/EPA Methods
North Creek Analytical - Bothell

| Analyte | Result | Reporting Limit | Units | Dilution | Method | Prepared | Analyzed | Batch | Notes |
|-------------------------------------|--------|--------------------|-------|----------|-------------|--------------------------------------|----------|---------|-------|
| 01AMRXT9SL (P1F0128-01) Soil | | | | | | Sampled: 06/02/01 Received: 06/06/01 | | | |
| Dry Weight | 78.5 | 1.00 | % | 1 | BSOPSPL003R | 06/11/01 | 06/12/01 | 1F11001 | |

North Creek Analytical - Portland



Jerry Orlando, Project Manager/QA

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Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 210901, PO# 21090
Project Manager: Anne Krarawetter

Amended Report
Issued: 11/07/01 10:22

Polynuclear Aromatic Compounds per EPA 8270M-SIM - Quality Control

North Creek Analytical - Portland

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

Batch 1060242 - EPA 3550

Blank (1060242-BLK1)

Prepared: 06/07/01 Analyzed: 06/11/01

| | | | | | | | | | | |
|----------------------------|------|------|-------|------|--|------|--------|--|--|--|
| Acenaphthene | ND | 13.4 | ug/kg | | | | | | | |
| Acenaphthylene | ND | 13.4 | " | | | | | | | |
| Anthracene | ND | 13.4 | " | | | | | | | |
| Benzo (a) anthracene | ND | 13.4 | " | | | | | | | |
| Benzo (a) pyrene | ND | 13.4 | " | | | | | | | |
| Benzo (b) fluoranthene | ND | 13.4 | " | | | | | | | |
| Benzo (ghi) perylene | ND | 13.4 | " | | | | | | | |
| Benzo (k) fluoranthene | ND | 13.4 | " | | | | | | | |
| Chrysene | ND | 13.4 | " | | | | | | | |
| Dibenzo (a,h) anthracene | ND | 13.4 | " | | | | | | | |
| Fluoranthene | ND | 13.4 | " | | | | | | | |
| Fluorene | ND | 13.4 | " | | | | | | | |
| Indeno (1,2,3-cd) pyrene | ND | 13.4 | " | | | | | | | |
| Naphthalene | ND | 13.4 | " | | | | | | | |
| Phenanthrene | ND | 13.4 | " | | | | | | | |
| Pyrene | ND | 13.4 | " | | | | | | | |
| Surr: Fluorene-d10 | 65.6 | | " | 83.3 | | 78.8 | 40-150 | | | |
| Surr: Pyrene-d10 | 102 | | " | 83.3 | | 122 | 40-150 | | | |
| Surr: Benzo (a) pyrene-d12 | 62.9 | | " | 83.3 | | 75.5 | 40-150 | | | |

LCS (1060242-BS1)

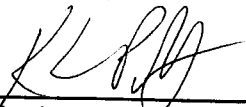
Prepared: 06/07/01 Analyzed: 06/11/01

Q-23

| | | | | | | | | | | |
|----------------------------|------|------|-------|------|--|------|--------|--|--|--|
| Acenaphthene | 137 | 13.4 | ug/kg | 167 | | 82.0 | 33-139 | | | |
| Benzo (a) pyrene | 123 | 13.4 | " | 167 | | 73.7 | 45-149 | | | |
| Pyrene | 153 | 13.4 | " | 167 | | 91.6 | 39-138 | | | |
| Surr: Fluorene-d10 | 66.3 | | " | 83.3 | | 79.6 | 40-150 | | | |
| Surr: Pyrene-d10 | 99.2 | | " | 83.3 | | 119 | 40-150 | | | |
| Surr: Benzo (a) pyrene-d12 | 64.7 | | " | 83.3 | | 77.7 | 40-150 | | | |

North Creek Analytical - Portland

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Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc.
Environmental Laboratory Network

Page 7 of 11

Bristol Environmental & Engineering
 2000 W. International Airport Rd. #C-1
 Anchorage, AK 99502-1116

Project: Amchitka
 Project Number: 210901, PO# 21090
 Project Manager: Anne Krarawetter

Amended Report
 Issued: 11/07/01 10:22

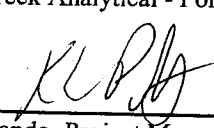
Percent Dry Weight (Solids) per Standard Methods - Quality Control

North Creek Analytical - Portland

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|-----------------------------------|---|--------------------|-------|----------------|------------------|------|----------------|-------|--------------|-------|
| Batch 1060470 - Dry Weight | | | | | | | | | | |
| Duplicate (1060470-DUP1) | Source: P1F0160-03 Prepared: 06/14/01 Analyzed: 06/15/01 | | | | | | | | | |
| % Solids | 90.7 | 1.00 % by Weight | | | 90.5 | | | 0.221 | 20 | |
| Duplicate (1060470-DUP2) | Source: P1F0160-02 Prepared: 06/14/01 Analyzed: 06/15/01 | | | | | | | | | |
| % Solids | 80.4 | 1.00 % by Weight | | | 80.4 | | | 0.00 | 20 | |
| Duplicate (1060470-DUP3) | Source: P1F0128-02 Prepared: 06/14/01 Analyzed: 06/15/01 | | | | | | | | | |
| % Solids | 80.7 | 1.00 % by Weight | | | 82.9 | | | 2.69 | 20 | |
| Duplicate (1060470-DUP4) | Source: P1F0128-01 Prepared: 06/14/01 Analyzed: 06/15/01 | | | | | | | | | |
| % Solids | 76.9 | 1.00 % by Weight | | | 77.0 | | | 0.130 | 20 | |
| Duplicate (1060470-DUP5) | Source: P1F0031-02 Prepared: 06/14/01 Analyzed: 06/15/01 | | | | | | | | | |
| % Solids | 87.3 | 1.00 % by Weight | | | 86.7 | | | 0.690 | 20 | |

North Creek Analytical - Portland

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North Creek Analytical, Inc.
 Environmental Laboratory Network

Page 8 of 11

Bristol Environmental & Engineering
 2000 W. International Airport Rd. #C-1
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Project: Amchitka
 Project Number: 210901, PO# 21090
 Project Manager: Anne Krarawetter

Amended Report
 Issued: 11/07/01 10:22

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

North Creek Analytical - Bothell

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

Batch 1F19024 - General Preparation

Blank (1F19024-BLK1)

Prepared & Analyzed: 06/18/01

| | | | |
|--------------------------------|----|------|-------|
| Total Organic Carbon - Average | ND | 1000 | mg/kg |
|--------------------------------|----|------|-------|

LCS (1F19024-BS1)

Prepared & Analyzed: 06/18/01

| | | | | | | | |
|--------------------------------|-------|------|-------|-------|-----|--------|------|
| Total Organic Carbon - Average | 14700 | 1000 | mg/kg | 12700 | 116 | 68-120 | |
| Total Organic Carbon - High | 15900 | 1000 | " | 12700 | 125 | 68-120 | Q-01 |
| Total Organic Carbon - Low | 13500 | 1000 | " | 12700 | 106 | 68-120 | |

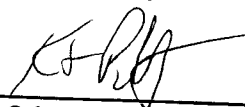
LCS Dup (1F19024-BSD1)

Prepared & Analyzed: 06/18/01

| | | | | | | | | |
|--------------------------------|-------|------|-------|-------|-----|--------|-------|----|
| Total Organic Carbon - Average | 14100 | 1000 | mg/kg | 12700 | 111 | 68-120 | 4.17 | 30 |
| Total Organic Carbon - High | 14700 | 1000 | " | 12700 | 116 | 68-120 | 7.84 | 30 |
| Total Organic Carbon - Low | 13600 | 1000 | " | 12700 | 107 | 68-120 | 0.738 | 30 |

North Creek Analytical - Portland

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Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 210901, PO# 21090
Project Manager: Anne Krarawetter

Amended Report
Issued: 11/07/01 10:22

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

North Creek Analytical - Bothell

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

Batch 1F11001 - Dry Weight

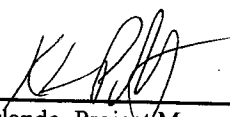
Blank (1F11001-BLK1)

| | | | | | | | | | | |
|------------|-----|------|---|--|--|--|--|--|--|--|
| Dry Weight | 100 | 1.00 | % | | | | | | | |
|------------|-----|------|---|--|--|--|--|--|--|--|

Prepared: 06/11/01 Analyzed: 06/12/01

North Creek Analytical - Portland

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Jerry Orlando, Project Manager/QA

Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 210901, PO# 21090
Project Manager: Anne Krarawetter

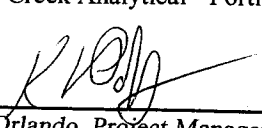
Amended Report
Issued: 11/07/01 10:22

Notes and Definitions

- Q-01 The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
- Q-23 The Matrix Spike/Duplicate for this batch could not be reported. Source sample contains high levels of target analyte, non-target analyte, and/or matrix interference requiring high dilution.
- R-03 The reporting limit for this analyte was raised due to matrix interference.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.
- wet Sample results reported on a wet weight basis (as received)
- RPD Relative Percent Difference

North Creek Analytical - Portland

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.


Jerry Orlando, Project Manager/QA

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